

Claims

1. A multi-focal contact lens wherein the lens is manufactured at least partially from a responsive polymer gel.
2. A multi-focal contact lens according to Claim 1 wherein the responsive polymer gel changes shape and/or refractive index.
3. A multi-focal contact lens according to Claim 1 or 2 wherein the responsive polymer gel responds to the application of stimulus.
4. A multi-focal contact lens according to Claim 3 wherein the stimulus is an electric field.
5. A multi-focal contact lens according to Claim 3 wherein the stimulus is a magnetic field.
6. A multi-focal contact lens according to any one of Claims 3 to 5 wherein the stimulus is produced by means embedded in the contact lens itself.
7. A multi-focal contact lens according to any one of Claims 3 to 6 wherein the means of providing the stimulus is a nano or micro chip.
8. A multi-focal contact lens according to Claim 7 wherein the chip monitors the eye movement such that a change in eye movement causes the chip to emit the stimulus.
9. A multi-focal contact lens according to Claim 7 wherein the chip monitors inter-pupillary distance and emits a stimulus when this changes.

10. A multi-focal contact lens according to Claim 7 where the chip monitors the distance between the right and left contact lenses and emits a stimulus when this changes.